


1912
Docket No.: SAE-0027
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE


In re Patent Application of:
Masato Tanaka et al.

Application No.: 10/500,560

Confirmation No.: 5196

Filed: June 30, 2004

Art Unit: 1621

For: NOVEL PROCESS FOR PRODUCING 1,2-DIOL

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Submitted herewith on Form PTO-1449 or PTO/SB/08 is a listing of documents known to Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR 1.56. Applicant respectfully requests that the listed documents be considered by the Examiner and formally be made of record in the present application and that an initialed copy of Form PTO-1449 or PTO/SB/08 be returned in accordance with MPEP §609.

- ☒ A copy of each listed document is being submitted to comply with the provisions of 37 CFR §§1.97 and 1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* prior art reference against the claims of the present application.

Concise Explanation of Relevancy of the Document

(Fill out if no English translation, partial translation or English abstract is available)

- ☒ Any document having neither English translation nor English abstract relates to the subject matter of the above-identified application. English translation of the document is not readily available; however, the absence of such translations does not relieve the PTO from its duty to consider the submitted document (37 C.F.R. §1.98 and MPEP §609).



1. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits in the present application. **No fee is required** (37 C.F.R. §1.97(b)). The Patent Office is **NOT AUTHORIZED** to charge deposit account 18-0013 under 37 CFR §§ 1.97(c)(2) and 1.17(p). However, **ONLY IF** a first Office Action on the merits was mailed before filing of this Information Disclosure Statement, please charge deposit account 18-0013 in the amount of \$180.00 for payment of the fee under 37 CFR §§ 1.97(c)(2) and 1.17(p).

Dated: February 7, 2005

Respectfully submitted,

By 

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PTO/SB/08a/b (08-03)

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Substitute for form 1449A/B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	1	of	1	Attorney Docket Number	SAE-0027
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Complete if Known

Application Number	10/500,560
Filing Date	June 30, 2004
First Named Inventor	Masato Tanaka
Art Unit	1621
Examiner Name	Not Yet Assigned
Attorney Docket Number	SAE-0027

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA	EP-0 146 374-A2	06-26-1985	Montedison S.p.A.		
	BB	JP-4-41449-A	02-12-1992	DAICEL CHEM IND LTD		

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	English Translation of the International Preliminary Examination Report	
	CB	Schwegler et al., "Heteropolyanions As Oxidation Catalysts in a 2-Phase System," Tetrahedron Letters, Vol. 29, No. 7, Pages 823-826, Pergamon Journals Ltd. (1988)	
	CC	Venturello, "A Convenient Catalytic Method for the Dihydroxylation of Alkenes by Hydrogen Peroxide," Synthesis, Pages 295-297 (April 1989)	
	CD	Corma et al., "Activity of Ti-Beta Catalyst for the Selective Oxidation of Alkenes and Alkanes," Journal of Catalysis, Vol. 145, Pages 151-158, Academic Press, Inc. (1994)	
	CE	Tatsumi et al., "Remarkable activity enhancement by trimethylsilylation in oxidation of alkenes and alkanes with H ₂ O ₂ catalyzed by titanium-containing mesoporous molecular sieves," Chem. Communications, Pages 325-326, (1998)	
	CF	Fraile et al., "Silica-Supported Titanium Derivatives as Catalysts for the Epoxidation of Alkenes with Hydrogen Peroxide: A New Way to Tuneable Catalytic Activity through Ligand Exchange," Journal of Catalysis, Vol. 189, Pages 40-51, Academic Press (2000)	
	CG	Swern et al., "Hydroxylation of Monounsaturated Fatty Materials with Hydrogen Peroxide," Journal of the American Chemical Society, Vol. 67, Pages 1786-1789 (1945)	
	CH	Mugdan et al., "Catalytic Hydroxylation of Unsaturated Compounds," Journal of Chemical Society, Pages 2988-2999 (1949)	
	CI	Luong et al., "Direct Hydroxylation of Fats and Derivatives with a Hydrogen Peroxide Tungstic Acid System," Journal of American Oil Chemical Society, Vol. 44, Pages 316-320, (May 1967)	
	CJ	Roebuck et al., "trans-1,2-Cyclohexanediol," Organic Syntheses Collective, Vol. 3, Pages 217-219 (1955)	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Examiner Signature		Date Considered	
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